

Substitute for Form 1449/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/955,529	
				Filing Date	September 17, 2001	
				First Named Inventor:	Mark Peting	
				Art Unit	2631	
				Examiner Name	Not Yet Assigned	
				Attorney Docket Number	004259.P032	
Sheet	1	of	2			
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
w	1	US-	4,015,238	3/29/1977	Robert Curtis Davis	RECEIVED AUG 13 2004 Technology Center 2600
		US-	5,027,374	6/25/1991	Mark W. Rossman	
		US-	5,291,499 A	3/1/1994	Behrens et al.	
		US-	5,295,142	3/15/1994	Izumi Hatakeyama	
		US-	5,349,608	9/20/1994	Graham, et al.	
		US-	5,608,737 A	3/4/1997	Kimura, et al.	
		US-	5,907,586	5/25/1999	Katsuragawa, et al.	
		US-	6,189,126 B1	2/13/2001	Ulmer, et al.	
		US-	6,266,687 B1	7/24/2001	Leyonhjelm, et al.	
		US-	6,301,314 B1	10/9/2001	Murayama, Jun	
		US-	6,563,889 B1	5/13/2003	Shih, et al.	
		US-				
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FOREIGN PATENT DOCUMENTS								
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

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STATEMENT BY APPLICANT**

Sheet 2 of 2

Complete if Known

Application Number	09/955,529
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First Named Inventor	Mark Peting
Art Unit	2631
Examiner Name	Unassigned
Attorney Docket Number	4259P032

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
aw		BOUCHERET/MORTENSEN/FAVARO, "Fast Convolution Filter Banks for Satellite Payloads with On-Board Processing," IEEE Journal on Selected Areas in Communications, February 1999, pp. 238-247, Vol. 17, No. 2, XP-000851758	
aw		YIM/COAKLEY, "On-Board Processing for KA-Band Applications," February 11, 1993, pp. 225-229, University of Surrey, UK, XP 000458011	

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Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (w/r) 08/11/2003.
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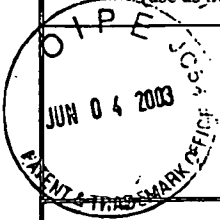
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				Examiner Name	Not Yet Assigned
				Attorney Docket Number	004259.P03
Sheet	2	of	2	RECEIVED AUG 13 2004 Technology Center 2600	
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
CV		BREE, ET AL., "A Bit-Serial Architecture For A VLSI Viterbi Processor", Communications Systems Research Group, University of Saskatchewan, Saskatoon, IEEE, WESCANEX '88, 1988, pages 72-77.			
CV		BIVER, ET AL., "Architectural Design and Realization Of A Single-Chip Viterbi Decoder", Elsevier Science Publishers B.V., INTEGRATION, The VLSI Journal 8 (1989), October, No. 1, Amsterdam, NL, Pages 3-16.			
CV		BREE, ET AL., "A Modular Bit-Serial Architecture For Large Constraint-Length Viterbi Decoding", Communications Systems Research Group, University of Saskatchewan, Saskatoon, Canada, IEEE International Conference on Communications", 1990, pages 1501-1506.			
CV		CHOI, ET AL., "Viterbi Detector Architecture For High-Speed Optical Storage", 1997, IEEE TENCON - Speech and Image Technologies for Computing and Telecommunications, ASIC Center Corporate Technical Operations SAMSUNG Electronics, Vol. 1, Dec 1997, pages 89-92.			
CV		W.H. YIM and F.P. COAKLEY, "On-Board Processing For KA-Band Applications", University of Surrey, UK, Publication Date, February 11, 1993., XP 000458011, pp. 225-229.			
CV		HASHIDA, MITSUYOSHI, "Hierarchical Network Management System and Control Method for Network Management Information," Patent Abstracts of Japan, Publication No. 07226777			

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	First Named Inventor: Mark Peting	
	Filing Date: September 17, 2001	



U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
<i>W</i>		5,778,192		Schuster, et al.	7-7-1998	
<i>W</i>		6,157,997		Oowaki, et al.	12-5-2000	

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FOREIGN PATENT DOCUMENTS

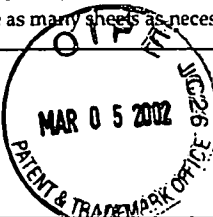
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		Office ³ Code ⁵	Number ⁴	Kind (If known)				
<i>W</i>		EP	0 762 777		Uchiumi, Tadasgu, et al.	3-12-1997		

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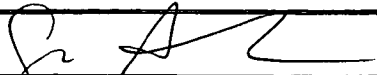
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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		Number	Kind Code ² (If known)			
		6,148,043		Fujimoto	11/14/2000	
		6,141,391		Morelos-Zaragoza, et al.	10/31/2000	
		6,138,265		Morelos-Zaragoza, et al.	10/24/2000	
		6,119,265		Hara	09/12/2000	
		5,974,095		Kitaura, et al.	10/26/1999	
		6,195,642	B1	Izumi, et al.	02/27/2001	
		6,122,325		Mogre, et al.	09/19/2000	
		6,049,573		Song	04/11/2000	
		6,005,640		Strolle, et al.	12/21/1999	

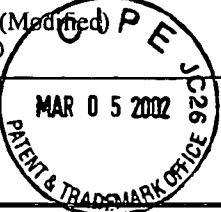
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OTHER ART - NO PATENT LITERATURE DOCUMENTS Technology Center 2600			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
CV		JAMES TSUI, Frequency Channelization, Digital Techniques for Wideband Receivers, Second Edition, Pages 363 - 396, 2001 Artech House, Inc., Norwood, MA	
CV		ZHENGDAO WANG and GEORGIOS B. GIANNAKIS, Wireless Multicarrier Communications where Fourier Meets Shannon, Department of ECE, University of Minnesota, Minneapolis MN., Pages 1-21	
CV		E. VERRIEST, ISEN, Implementing an Adaptive Noise Canceling System to Enhance Sonar Receiver Performance Using the TMS320C31 DSP, ESIEE, Paris, September 1996, Texas Instruments, Pages 1-24.	
CV		C.A. SHAW, P.A. FORD, J.C. ANDERSON, B.W. ZUERDNORFER, A.H. ANDERSON, RASSP Benchmark 2 Technical Description, Massachusetts Institute Of Technology Lincoln Library, 153 pages total.	
CV		"www.inventra.com/inventra/softcore/workshop/MultiRaFiltDes95/" MENTOR GRAPHICS, Hardware Design of Decimators/Interpolators, Pages 1-38.	
CV		"www.mentor.com/inventra/softcore/workshop/SDmod95/" MENTOR GRAPHICS, Introduction to AD/DA Converters, Pages 1-27.	
CV		http://www.mentor.com/inventra/softcore/workshop/SDHWDes95/ MENTOR GRAPHICS, Design of the Decimation & Interpolation Filters, Pages 1-57.	
CV		http://www.mentor.com/inventra/softcore/workshop/Applications95/ MENTOR GRAPHICS, Sigma-Delta Converter Applications, Pages 1-5.	

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